

## Freeform Search

*update*  
09768560

**Database:** US Pre-Grant Publication Full-Text Database  
US Patents Full-Text Database  
US OCR Full-Text Database  
EPO Abstracts Database  
JPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

**Term:** thermochromic ink printed

**Display:**  **Documents in Display Format:**  **Starting with Number**

**Generate:** ☐ Hit List ☒ Hit Count ☐ Side by Side ☐ Image

Search

Clear

Interrupt

## Search History

**DATE:** Monday, July 26, 2004 [Printable Copy](#) [Create Case](#)

**Set Name Query**  
side by side

**Hit Count Set Name**  
result set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

L27 thermochromic ink printed 23 L27

L26 imprinted thermochromic ink 2 L26

DB=USPT; PLUR=YES; OP=ADJ

L25 4028118.pn. 1 L25

L24 (thermochromic ink) and (printing) 97 L24

L23 (Feldman) and (cooking surface) 11 L23

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

L22 print thermochromic ink 2 L22

L21 L20 and "print" 8 L21

L20 thermochromic indicator 71 L20

DB=USPT; PLUR=YES; OP=ADJ

L19 5738442.pn. 1 L19

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

L18 L1 and "printed ink" 29 L18

L17 L1 and "imprinted ink" 0 L17

L16 L15 and "thermochromic" 3 L16

<u>L15</u>	ceramic mug	67	<u>L15</u>
<u>L14</u>	ceramic beverage	6	<u>L14</u>
<u>L13</u>	L1 and "ceramic mug"	0	<u>L13</u>
<u>L12</u>	L1 and "ceramic cup"	8	<u>L12</u>

*DB=PGPB,USPT,USOC,EPAB,JPAB; PLUR=YES; OP=ADJ*

<u>L11</u>	L10 and "thermochromic"	115	<u>L11</u>
<u>L10</u>	(374/162,141,150,157,208,120;116/216)![CCLS]	3904	<u>L10</u>

*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ*

<u>L9</u>	L8 and "thermochromic ink"	16	<u>L9</u>
<u>L8</u>	116/216	999	<u>L8</u>
<u>L7</u>	L1 and "thermochromic ink"	27	<u>L7</u>

*DB=USPT; PLUR=YES; OP=ADJ*

<u>L6</u>	4402195.pn.	1	<u>L6</u>
<u>L5</u>	3125984.pn.	1	<u>L5</u>
<u>L4</u>	4878588.pn.	1	<u>L4</u>

*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ*

<u>L3</u>	L1 and "mug"	22	<u>L3</u>
<u>L2</u>	L1 and "cup"	1055	<u>L2</u>
<u>L1</u>	374/\$	32990	<u>L1</u>

END OF SEARCH HISTORY

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2<sup>0</sup>☐ **Generate Collection**

L27: Entry 20 of 23

File: EPAB

Jan 10, 2001

PUB-NO: EP001066978A2  
DOCUMENT-IDENTIFIER: EP 1066978 A2  
TITLE: Security of printing articles

PUBN-DATE: January 10, 2001

## INVENTOR-INFORMATION:

NAME

BENSON, VICTOR

COUNTRY

GB

## ASSIGNEE-INFORMATION:

NAME

SCIENT GAMES INTERNAT LTD

COUNTRY

GB

APPL-NO: EP00113475

APPL-DATE: June 26, 2000

PRIORITY-DATA: GB09916166A (July 9, 1999), GB00007183A (March 25, 2000)

INT-CL (IPC): B41 M 3/14; B42 D 15/10

EUR-CL (EPC): B41M003/14

## ABSTRACT:

CHG DATE=20010202 STATUS=O>&ORDF;&ORDF;&ORDF;&ORDF;There is disclosed a security printing system involving the use of thermochromic inks printed on an article such as a lottery ticket or pre-paid telephone card having an amount of credit thereon for use in a mobile telecommunications network. Two layers of thermochromic ink are applied to the article each having a different and sufficiently separate activation temperatures at which a certain characteristic of the ink changes, for example its colour, opacity, transparency or translucency. The first applied layer, in the shape of a validation mark or the like, ideally has an activation temperature higher than the second layer applied thereover, so that two separate tests can be performed on the article. A first test is the application of heat to the mark by a human finger or the like whereupon the second layer becomes ideally transparent to reveal the validation mark. The second test is the application of more heat, for example by a hairdryer or other dedicated heating apparatus, whereupon a particular characteristic of the first ink changes.

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